

WHAT IS CLAIMED IS:

1. A method of forming a fiber cement assembly, comprising:
forming a first layer of adhesive mixture on an exterior surface of a substrate wherein the exterior surface has a texture;
forming a second layer of adhesive mixture on a side surface of the substrate wherein the side surface extends substantially perpendicularly from lateral edges of the exterior surface of the substrate;
placing a fluorohydrocarbon film on the exterior surface of the substrate; and
applying heat and pressure to the film in a manner such that the film is bonded to the exterior surface and side surfaces of the substrate at the same time.
2. The method of Claim 1 further comprises placing a rubber sheet on a non-bonding surface of the film wherein the rubber sheet facilitates transfer of the texture on the exterior surface of the substrate to the film.
3. The method of Claim 2 wherein placing the rubber sheet on the non-bonding surface of the film comprises placing a rubber sheet having a durometer between about 10 and 100 shore A and a thickness between about 1/16 inch to ¼ inch.
4. The method of Claim 1 wherein applying heat and pressure to bond the film comprises using a press having a horizontal member that presses a first section of the film against the exterior surface of the substrate and a plurality of vertical members that cause a second section of the film to wrap around the lateral edges and press against the side surface of the substrate.
5. The method of Claim 4 wherein using the press comprises using a continuous isobaric press.
6. The method of Claim 5 wherein the horizontal member comprises a metal platen covered with rubber sheet and the vertical members comprise a plurality of rubber belts.
7. The method of Claim 4 wherein placing the rubber sheet on the non-bonding surface of the film comprises placing a rubber sheet having a durometer between about 10 and 100 shore A and a thickness between about 1/16 inch to ¼ inch.

8. The method of Claim 6 wherein the rubber belts have a durometer between about 10 and 100 shore A and a thickness in a horizontal direction of about 1/16 inch to 1 inch.

9. The method of Claim 6 wherein the thickness of the rubber belts in a vertical direction is greater than the thickness of the substrate plus the second layer of adhesive and the film.

10. The method of Claim 5 wherein the continuous isobaric press further comprises a plurality of support material having an upper surface that is adapted to receive a substrate, the support material having a width smaller than the width of the substrate.

11. The method of Claim 1 wherein applying heat and pressure to the film comprises applying approximately 15 to 700 psi for about 5 seconds to 5 minutes at between about 350 degrees and 450 degrees F.

12. The method of Claim 1 wherein forming the first layer of adhesive mixture comprises forming a layer of adhesive that includes a reactive isocyanate compound and a catalyst that is capable of catalyzing a reaction between the isocyanate compound and hydroxyl functional groups.

13. The method of Claim 1 wherein forming the second layer of adhesive mixture comprises forming a layer of adhesive that includes a reactive isocyanate compound and a catalyst that is capable of catalyzing a reaction between the isocyanate compound and hydroxyl functional groups.

14. The method of Claim 1 wherein forming the second layer of adhesive mixture comprises forming a layer of hot-melt polyurethane based adhesive.